

# BLAST Basic Local Alignment Search Tool

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Blast 2 sequences

## X98077:Higashi-X1

Results for:  ▼

Your BLAST job specified more than one input sequence. This box lets you choose which input sequence to show BLAST results for.

### Query ID

gi|1914699|emb|X98077.1|HBVCGWITY

### Description

Hepatitis B virus complete genome, wild type

### Molecule type

nucleic acid

### Query Length

3215

### Subject ID

53829

### Description

None

### Molecule type

nucleic acid

### Subject Length

23

### Program

BLASTN 2.2.20+ [Citation](#)

### Reference

Stephen F. Altschul, Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", *Nucleic Acids Res.* 25:3389-3402.

Other reports: [Search Summary](#) [[Taxonomy reports](#)]

## Search Parameters

Program	blastn
Word size	20
Expect value	10
Hitlist size	100
Match/Mismatch scores	2,-3
Gapcosts	5,2
Low Complexity Filter	Yes
Filter string	L;m;
Genetic Code	1

## Karlin-Altschul statistics

Params	Ungapped	Gapped
Lambda	0.633731	0.625
K	0.408146	0.41
H	0.912438	0.78

## Results Statistics

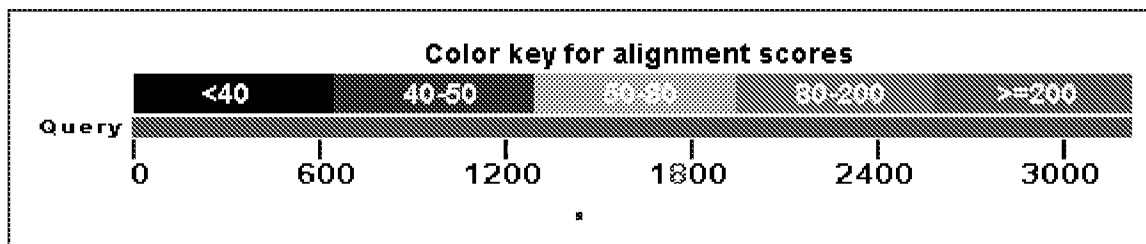
Effective search space 41665

### [Graphic Summary](#)

## Distribution of 1 Blast Hits on the Query Sequence

[?]

An overview of the database sequences aligned to the query sequence is shown. The score of each alignment is indicated by one of five different colors, which divides the range of scores into five groups. Multiple alignments on the same database sequence are connected by a striped line. Mousing over a hit sequence causes the definition and score to be shown in the window at the top, clicking on a hit sequence takes the user to the associated alignments. New: This graphic is an overview of database sequences aligned to the query sequence. Alignments are color-coded by score, within one of five score ranges. Multiple alignments on the same database sequence are connected by a dashed line. Mousing over an alignment shows the alignment definition and score in the box at the top. Clicking an alignment displays the alignment detail.



[Dot Matrix View](#)

## Plot of gi|1914699|emb|X98077.1|HBVCGWITY vs 53829

This dot matrix view shows regions of similarity based upon the BLAST results. The query sequence is represented on the X-axis and the numbers represent the bases/residues of the query. The subject is represented on the Y-axis and again the numbers represent the bases/residues of the subject. Alignments are shown in the plot as lines. Plus strand and protein matches are slanted from the bottom left to the upper right corner, minus strand matches are slanted from the upper left to the lower right. The number of lines shown in the plot is the same as the number of alignments found by BLAST.



### [Descriptions](#)

Legend for links to other resources:  UniGene  GEO  Gene  Structure  Map Viewer

### Sequences producing significant alignments:

(Click headers to sort columns)

53829	42.8	42.8	0%	6e-09	100%

[Alignments](#) [Select All](#) [Get selected sequences](#) [Distance tree of results](#)

>lcl|53829  
Length=23

Score = 42.8 bits (46), Expect = 6e-09  
Identities = 23/23 (100%), Gaps = 0/23 (0%)  
Strand=Plus/Plus

Query	1433	CGTCGGCGCTGAATCCCGCGGAC	1455
Sbjct	1	CGTCGGCGCTGAATCCCGCGGAC	23

[Select All](#) [Get selected sequences](#) [Distance tree of results](#)